



## In the United States Patent and Trade Mark Office

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In re application of : DANNY ADCOCK  
Title: EXERCISE DEVICE  
Serial Number: 10/537240  
Filed on : 26 November 2003  
10 Correspondence Date: 23 January 2009  
Examiner: Allana Lewin  
Art Unit 3764

15 Amendment and Response to First Official Action

**Commissioner of Patents**  
**P.O. Box 1450**  
**Alexandria VA 22313-1450**

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Sir,

This amendment is in response to the office action mailed to the applicant on 23 January 2009.

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Please amend the above application as indicated below:

**Original claims 1-26 were deleted. Claims 27 – 53 are pending in the application.**

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The Applicant proposes the following revised Claims:

Annotated – Underline indicates amendment and brackets indicate deletions:

35 54 [27](Amended) A device for the exercise of the musculature of the upper arm, the device comprising: telescopically assembled co operating inner and outer tubular elements, each said tubular elements having end closure means at their outer ends; said outer tubular element including an inwardly projecting collar at its inward open end; said inner tubular element provided with an outwardly projecting collar at its inward open end; said collars co operating to prevent the withdrawal of said inner tubular element 40 from said outer tubular element when said tubular elements operate telescopically;

said device moveable between a first state in which the telescopic elements are fully extended and a second state in which the telescopic elements are compressible against a bias inside the device to provide a resistance force to rotational movement about the elbow of a forearm in a direction towards an upper arm of the same arm; wherein the  
5 device is of a length which allows engagement of one end with a hand of a user and the other end with an upper part of the same arm such that the user can exercise one arm by urging the hand against the upper arm without use of the other arm through an angle; [.]

[28] A device according to claim 27 wherein said rotational movement extends between the limits] of approximately an angle of 90 degrees formed by the forearm and  
10 upper arm; [ and a smaller angle between said forearm and said upper arm limited by contact between said forearm and said upper arm.]

[29. A device according to claim 28] wherein, the bias is a compression spring which naturally biases the telescopic elements to their maximum relative extent; the maximum extended position, limited by contact between said collars;

15 [30 A device according to claim 29] wherein, ends of said spring act against said closure means to provide the bias to maximum extent; and [.]

[31 A device according to claim 30 wherein said is\_.]

20 [32 (NEW) A device according to claim 31 wherein] said end closure means of said outer tubular member comprising [es] a [n] removable end cap having a threaded sleeve section which mates with a threaded portion at the end of said tubular element; [.] and which

25 [33 Deleted A device according to claim 32 wherein the end cap on the outer tubular element is removeable to] allows access to an interior passage in said device which receives the spring; [.]

30 55 [37](Amended) A device according to claim 54 [10] wherein, said end closure means at the outward end of said outer tubular element is provided with a piston rod extending from said end closure means substantially the length of said outer tubular member.

56 [38](Amended) A device according to claim 55 [37] wherein said piston rod terminates in a piston adapted for sliding in said inner tubular member.

5 56 [39](Amended ) A device according to claim 56[38] wherein the piston provides sealing of said telescopic elements.

57 [40] (Amended) A device according to claim 56 [39] wherein the compression spring is installed between said end cap and the inwardly projecting collar of said inner tubular member.

10 58 [41](Amended) A device according to claim 57 [40] wherein, said inner tubular member includes an air flow control valve positioned at said outward end of said inner tubular member.

15 59 [42] (Amended) A device according to claim 58 [41] wherein, said air control valve is adapted to variably restrict the rate of air flow from said inner tubular member when said piston is driven towards said outward end of said tubular member.

20 60 [43] (Amended) A device according to claim 59 [42] wherein said end closure means are provided with resilient pads.

61 [44] (Amended) A device according to claim 60 [43] wherein one of said end closure means is provided with strapping to secure the device to the wrist of a user.

25 62 [45] (Amended) A device according to claim 61 [44] wherein the overall length of said device when said outer and said inner tubular members are in a fully extended position is within in the range of 130 to 180 mm.

63 [46] (Amended) A device according to claim 62 [45] wherein said compression spring acts on a piston and piston rod coaxial with said tubular member so as to urge said piston and said piston rod into a maximum extended position.

5 64 [47] (Amended) A device according to claim 63 [46] wherein an installed length of said compression spring is adjustable so as to vary a compressive force exerted by said spring on said piston and said piston rod; wherein said installed length is the length of said spring when said piston and said piston rod are in said maximum extended position.

10 65 [48] (Amended) A device according to claim 64 [47] wherein said tubular member is provided with a shoulder yoke, to support said device at the shoulder of a user; and a wrist yoke at an outer end of said piston rod to provide support for said device at the wrist of said user.

15 66 [49] (Amended) A device according to claim 65 [48] wherein said shoulder yoke is provided with adjustment means adapted to vary the distance between said shoulder yoke and said wrist yoke.

20 67 [50] (Amended ) A device according to claim 66 [49] wherein, said wrist yoke is provided with strapping means adapted to secure said yoke to the wrist of a user.

25 68 [51] (Amended) A device according to claim 67 [50] wherein spring compression loadings required to compress the spring are in the range of 11 to 21[15] lb per inch of compression.

69 [34] (Amended) A device according to claim 68 [33] wherein, the level of force resistance exerted by the device can be adjusted by substituting one biasing spring with another of a different compression resistance.

30 70 [35] (Amended) A device according to claim 69 [34] wherein said end closure means of said inner tubular member is provided with a threaded portion adapted to mate

with an external thread on the outside of said inner tubular element; said threaded portion providing adjustment means to enable variation of length between said end closure means.

5 71 [36] (Amended) A device according to claim 70 [35] wherein said end closure means of said inner tubular member includes a threaded socket; said socket adapted for the attachment of a resilient support pad adapted to fit against the shoulder or hand of a user.

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[52 A device according to claim 50 wherein spring compression loadings required to compress the spring are in the range of 17 to 21 lb per inch of compression. ] Deleted

69 [53](Allowed) A method for the exercise of the musculature of the upper arm, using a device comprising : telescopically assembled co operating inner and outer tubular elements, each said tubular elements having end closure means at their outer ends; said outer tubular element including an inwardly projecting collar at its inward open end; said inner tubular element provided with an outwardly projecting collar at its inward open end; said collars co operating to prevent the withdrawal of said inner tubular element from said outer tubular element when said tubular elements operate telescopically; said method comprising including the steps of; (a) exerting an axial load on the device to induce compression in the device; such that the device resists rotational movement of a forearm towards an upper arm of the same arm, said resistance force acting along the line between the shoulder and the wrist of a user;

(b) relaxing said axial load on said device so that said device restricts the angle at the elbow of said user to an angle about or less than 90 degrees;

(c) adjusting said device so that the resistance force is within the capacity of the user to overcome by the rotational movement of the forearm towards the upper arm; said adjustment being effected by means of springs of varying spring rate or by means of varying the installed length of a compression spring;